

Institutional Advancement, Office of

OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

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OCTOBER 22, 1990
VOLUME 5, NUMBER 8O'Haver and Trasco Win
EDUCOM Awards

Two computer programs—one that enables students to perform sophisticated signal analyses but costs less than many textbooks and one that lets students view and study the universe on a computer monitor instead of through a telescope—have garnered University of Maryland at College Park researchers two top awards and one distinguished award.

Thomas C. O'Haver, professor of analytical chemistry, garnered two best of category awards, one for the best chemistry software and one for best software design. Of the 23 awards given, only nine were for the "best" category.

O'Haver, the only individual candidate selected to be awarded two top prizes, received the honors for his SPECTRUM (Signal Processing for Experimental Chemistry Teaching and Research) program, a user-friendly, Macintosh computer-based program that allows students to obtain, enhance and analyze signals generated by such widely-used scientific instruments as spectrometers and chromatographs.

The awards came from the National Center for Research to Improve Postsecondary Teaching and Learning (NCRIPTAL) and EDUCOM, a consortium of more than 500 colleges, universities, and

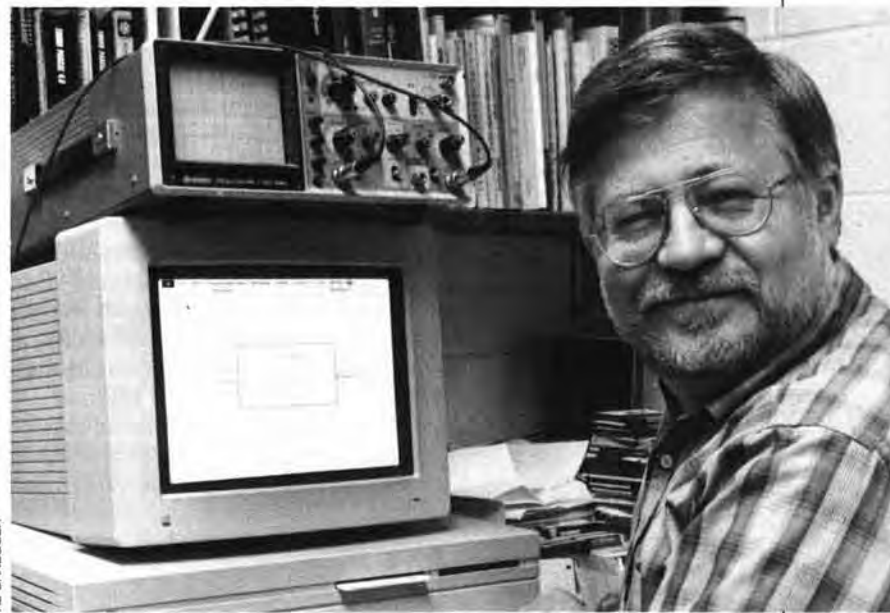
other institutions concerned with information technologies in higher education. The two organizations jointly sponsor a higher education software competition each year to recognize educational software that best reflects innovative and effective approaches to improving higher education.

A total of 170 entries were submitted for the competition.

John D. Trasco, associate director of the astronomy program, won a distinguished software award for his ASTRO LABS program. ASTRO LABS is a collection of four, multi-part experiments that allow students to simulate actual astronomical observations and analysis on IBM compatible personal computers. All three awards carry cash prizes as well as trophies.

EDUCOM/NCRIPTAL awards are given to original educational software that best reflects innovative and effective approaches to improving higher education.

O'Haver and Trasco were presented their trophies at the EDUCOM '90 meeting held in Atlanta, Georgia, during October 15 to 17. The cash awards were presented to the two researchers by

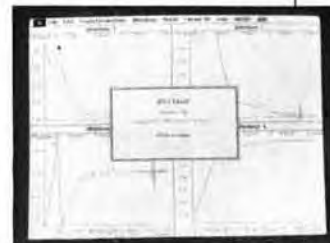


AL DANNEGER

Vice President for Academic Affairs and Provost J. Robert Dorfman at a special ceremony held at the physics lecture hall on October 5.

O'Haver's SPECTRUM is an interactive, graphics-oriented computer program used to explore and enhance signal data produced by measurement devices. Measurement in science is important, according to O'Haver, because scientific progress depends largely on

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Thomas O'Haver and
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Engineering Joins \$15 Million NSF
Grant Coalition

A coalition of schools and colleges of engineering at seven universities, including the College of Engineering at College Park, has received a five-year, \$15 million grant from the National Science Foundation to help fund a project designed to improve dramatically the effectiveness of undergraduate engineering education through curriculum renewal.

The project—the Engineering Coalition of Schools for Excellence in Education and Leadership or ECSEL—also aims to increase the number of women and minorities entering the engineering profession.

ECSEL is one of two national coalitions funded by NSF. It is budgeted at \$15 million from NSF and \$15 million in matching funds from the private sector and the universities.

The six other ECSEL universities are City College of New York, Howard University, Massachusetts Institute of Technology, Morgan State University, Pennsylvania State University and the University of Washington.

The ECSEL Coalition will be directed by a principal investigator, Howard's engineering dean Lucius

Walker, through a Faculty Executive Committee with one member from each coalition school.

College Park chemical engineering professor Thomas M. Regan is the principal investigator at Maryland and is ECSEL's associate director in charge of Teaching/Learning Innovation. The project will be widely based throughout the College of Engineering, he says.

College Park has the responsibility for devising a program of faculty development since a renovation of engineering education will require the renewed efforts of faculty. Maryland also will develop and operate ECHO, a coalition-wide communications network. The Maryland budget for the first year of the project is \$700,000.

"The grant draws attention to the high priority and focus that we will be placing on undergraduate education in the College of Engineering," Regan says. "A natural consequence of ECSEL will be a significant enhancement throughout the curriculum, an emphasis on new ways to teach and learn, and an increased professional competency for a lifelong career."

Tom Otwell



See you at the Seventh
Annual Faculty and Staff
Convocation, Tuesday,
Oct. 23, 3 p.m.,
Memorial Chapel
(reception afterward).

Dorfman to Discuss Budget Issues at Senate Meeting

The next meeting of the College Park Campus Senate is scheduled for Monday, Oct. 22 (today), from 3:30 to 6:30 p.m. in Room 0126 of the Reckord Armory. Items on the agenda include Dr. J. Robert Dorfman discussing budget issues, a motion to approve a name change for the Institute for Urban Studies to the Department of Urban Studies, the Student Honor Council, an ad hoc committee to work on the campus policy for the training and supervision of TA's, a motion to approve the Graduate Certificate in Women's Studies and a resolution to proclaim Nov. 14 and 15, 1990 as Multicultural Community Awareness Days at the university.

Professors Win Awards for Software Design

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the ability to make accurate quantitative measurements, and modern scientific research and technology relies heavily on sophisticated instrumentation to perform such measurements.

Many of these measurements are obtained in the form of signals. A signal represents measured quantities of such entities as voltage, temperature, pressure, mass, energy, volume, density, concentration, or wavelength. A type of signal most people are familiar with is the spiked line that is produced by an EKG (electrocardiogram)—an instrument that measures and

ence in performing scientific analyses or solving scientific problems."

Part of SPECTRUM's analytic power comes from its ability to help students see information that is not always apparent from a simple visual inspection of graphic data. For example, a slight bulge or peak in a signal graph line may be almost imperceptible to the naked eye. But when isolated and enhanced by SPECTRUM, that signal deviation may reveal important information about the chemical under analysis, such as its purity or composition.

"A common misconception among inexperienced students is that the information content of a recorded experimental signal will always be obvious by visual inspection of the plotted data," O'Haver points out. "But there are situations where important information is presented in recorded data in such a way that the human eye-brain system completely fails to recognize that information." While fledgling chemistry students can benefit from SPECTRUM, more experienced users are finding SPECTRUM equally helpful. Because its user-friendly format is coupled with a wide range of sophisticated features and capabilities, SPECTRUM is appropriate for introductory chemistry students as well as those involved in graduate research. It allows both student groups to easily perform a multitude of functions in seconds that would be prohibitively difficult and time-consuming otherwise. "Its user-friendliness encourages less advanced students to use SPECTRUM while its speed and power encourage more advanced students to explore more sophisticated analytical techniques," O'Haver says.

Students in other scientific discipline also can benefit from SPECTRUM's power and versatility. Although O'Haver designed SPECTRUM for analytical chemistry students, the program is equally suitable for any field of study that uses signal data, such as physics, medical research, clinical psychology, environmental and earth sciences, biochemistry, or materials testing.

The other University of Maryland award winner was John D. Trasco. His ASTRO LABS program harnesses the power of the personal computer to simulate the power of the telescope. Using ASTRO LABS, Students can "view" and measure the positions of Jupiter's moons, the distance of celestial objects, and galactic rotation, and analyze the expansion of the universe—all on a computer monitor. "A computer helps show the inter-relationships of the discipline of astronomy in a way that is much better than simply using a pencil and paper," Trasco says.

In designing ASTRO LABS, Trasco and his colleagues wanted a software program that would give non-science majors a meaningful astronomy laboratory experience

while teaching them the fundamentals of the science of astronomy.

They were also motivated by more practical concerns. "Ideally, all astronomy labs should have some introduction to telescope observing," says Trasco. "But practically, this is precluded because of weather and equipment limitations."

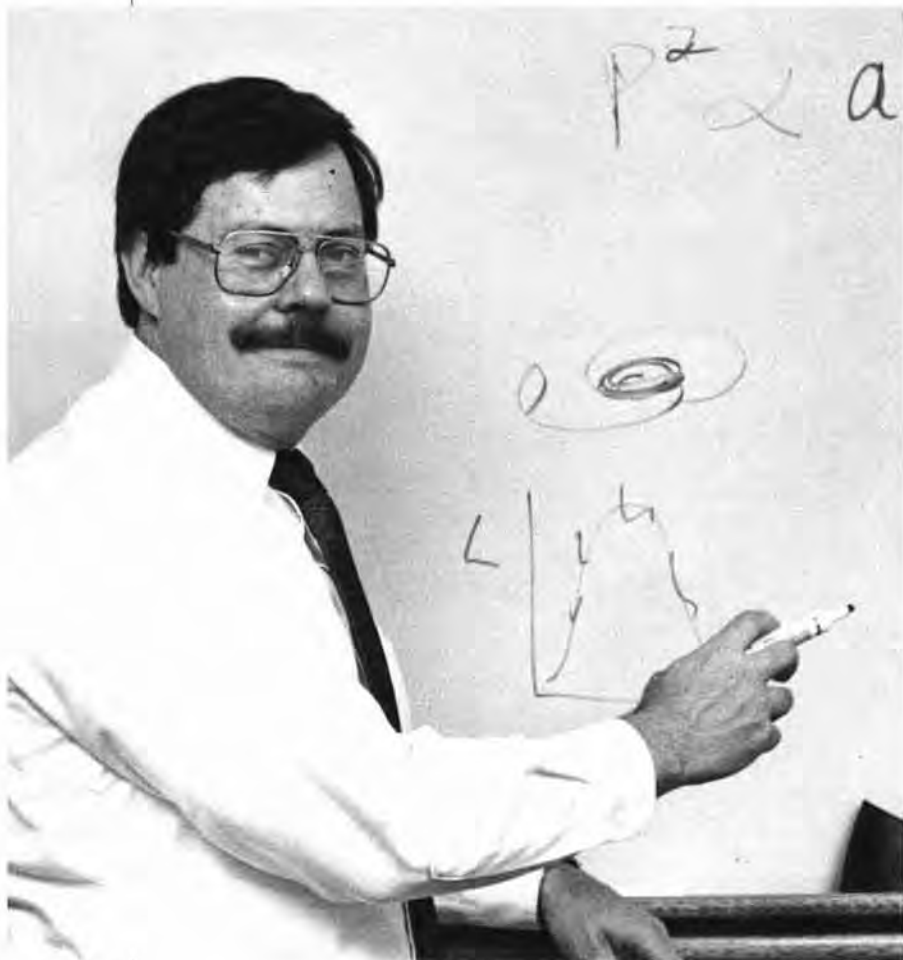
He notes that the traditional approach to surmounting these limitations relies on using photographs of celestial objects or providing students with tabular data with which to work. But this method, too, has its limitations, according to Trasco. "Using these materials forces students into a passive role," he says.

Instead, Trasco and his associates wanted a system that would actively involve the student while mimicking as closely as possible the functions and workings of a telescope. They succeeded. Using IBM personal computers, ASTRO LABS provide realistic images of the moons of Jupiter, star fields, or entire galaxies.

But there were other impediments—of a more cosmic nature—that ASTRO LABS had to overcome. One of those was time. As Trasco explains, with the exception of the motion of nearby celestial objects and the evolution of cataclysmic events, astronomical phenomena are largely static as measured by human time scales. But with ASTRO LABS, "the long time frame encountered in astronomical observations can be compressed by the presentation of successive images at set time intervals."

This feature allows students to watch a celestial event unfold in seconds or minutes instead of the millions of years it might normally take.

Gary M. Stephenson



John D. Trasco: "A computer helps show the interrelationships of the discipline of astronomy in a way that is much better than simply using a pencil and paper."

displays the electrical activity of the heart.

With SPECTRUM, students can graphically manipulate signals to gain a better understanding of the signal and its source. They may wish to compare two signals, enlarge an area of a signal, or apply one of several enhancement techniques to the signal. Additionally, SPECTRUM features more than 20 built-in mathematical operations that can be rapidly applied to the graphic data to obtain various quantitative measurements of the signal.

Because the program is highly interactive, students can perform multiple operations on real or simulated data, obtaining immediate, dynamic visual feedback. This allows them to perform computational operations in the same way as would a professional scientist. "Text books are crucial for learning, but they have no room for exploration by the student," O'Haver says. "SPECTRUM brings the textbook to life. There is no substitute for the real thing or for hands-on experi-

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor Outlook, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is outlook@pres.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Greek Chapters Active in Community Service Projects

During 1989-90, the university's fraternities and sororities were actively engaged in community service projects that resulted in contributions to charity of nearly \$118,000 and 2,845 hours in donated time. Activities ranged from Zeta Beta Tau's Dancers Against Cancer annual dance marathon that raised \$75,000 for the American Cancer Society to the Pan-Hellenic Council's donation of 20 turkeys to homeless shelters at Thanksgiving and Christmas to Zeta Phi Beta's Halloween party at the Hospital for Sick Children. During Greek Week 1990, fraternities and sororities gave 100 hours and raised \$12,000 for Students Against Drunk Driving.

NEWS

Visual Press Signs Agreements with Smithsonian Institution

The Smithsonian Institution will distribute and provide funds for development of a variety of video productions by the University of Maryland at College Park's Visual Press under a pair of agreements signed recently.

As part of the agreements, The Smithsonian Institution will distribute the Visual Press production of "Beckett Directs Beckett," which features performances of the late Samuel Beckett's "Waiting for Godot" and "Krapp's Last Tape." Taped in 1988 with the Nobel Prize-winner's participation, the productions were shown on public television stations throughout the United States earlier this year.

In addition, The Smithsonian Institution will provide the Visual Press with funds for the development of several other projects, the first being an historically based dramatic presentation that will focus on an African American 19th century quilt maker whose work now hangs in major museums in the United States. Academic research and script-writing for the project is underway.

"Distribution through the Smithsonian will give us access to the kinds of audiences we're trying to reach," says William Gilcher, producer/writer for the Visual Press. The Visual Press is directed by

Mitchell Lifton, professor of comparative literature.

"The assistance that we'll receive for productions is very important. The amount isn't huge, but it is enough to produce scripts for projects which often is the most difficult part of a production to fund," Gilcher says.

Among the goals for future productions is utilizing the expertise of College Park faculty members, Gilcher says. For instance, Gladys-Marie Fry, professor of English, is the chief scholar for the current project on the quilt maker.

The relationship between Harriet Powers, an ex-slave artisan and quilt maker, with Jennie Smith, an upper-middle class artist and teacher who helped preserve Powers' work for posterity, is the main subject of the drama. Smith discovered Powers' work at a "Cotton Fair" in Athens, Georgia, in 1886 and eventually bought a quilt made by the artist. The sale of the quilt began a relationship that lasted for a number of years, with Powers' making periodic visits to Jennie Smith to see her quilt. Much of what is known about Powers' life comes from Smith's diary descriptions of these meetings.

Powers' quilts feature narratives that blend elements of West African and Christian religious tradi-

tions. Examples of her work are currently on display at the Smithsonian Institution's National Museum of American History and the Boston Museum of Fine Arts.

Fry, a folklorist, received national attention for her work in curating a museum exhibit on slave quilt-making, "Stitched from the Soul: Slave Quilting in the Antebellum South." The exhibition was shown at museums in New York and Washington during its 1988-89 national tour.

Another project on the drawing board, although still embryonic, would draw upon a forthcoming biography of dancer/choreographer Anna Sokolow by Larry Warren, professor of dance.

In addition to its Smithsonian Institution-related projects, the Visual Press is in various stages of development on other productions involving media organizations in Europe. Foremost among these is a planned eight-part series on Bertolt Brecht, based on a forthcoming biography by John Fuegi, professor of comparative literature. Scripts currently are being written for the series under the direction of Jorge Semprun, award-winning screenwriter and Spanish minister of culture.

Brian Busek



Harriet Powers is the subject of a planned Visual Press-Smithsonian production

Conference Looks at Entrepreneurship in U.S. and Japan

The Dingman Center for Entrepreneurship at the College of Business and Management sponsored a conference on entrepreneurial opportunities in the U.S. and Japan, Oct. 15-17. Attendance at the conference, by invitation only, consisted of selected Japanese and American entrepreneurs.

The conference sessions focused on building practical skills for doing business in the two countries, according to Charles Heller, director of the Dingman Center. In addition, it provided opportunities

for participants to form business alliances.

Among the topics discussed at the conference were: the factors that influence successful operation in another country; the structuring of effective joint ventures; the cultural differences between Americans and Japanese; and the government programs designed to facilitate business opportunities in the two countries.

Funding for the U.S.-Japan Conference came from a \$500,000 donation made to the Dingman Center

by Shoji Kanazawa, one of Japan's leading entrepreneurs. Kanazawa is founder and chairman of the Ftero Group, a Tokyo-based conglomerate with interests in both North America and Asia.

For information about the Dingman Center's U.S.-Japan program, including the results of the conference, call Ron Holtz, manager of international programs, at 405-2146.

Math Department to Host High School Competition

The Department of Mathematics will host the 12th annual University of Maryland High School Mathematics Competition October 24 and December 5.

Part I of the competition is open to all students enrolled in high schools in Maryland and the District of Columbia. Part II, administered in December, is a showdown for the championship between the highest-scoring participants of Part I.

The three top competitors will win \$300, \$200 and \$100, respectively.

Also, the highest scorer from each county of Maryland, the city of Baltimore and the District of Columbia will each receive \$25. Scholarships will be awarded to highly-ranked competitors who apply to the University of Maryland at College Park.

The two-part format will be similar to previous competitions, consisting of questions that require mathematical insight and ingenuity.

Part I, which will be held Oct. 24 from 1 to 3 p.m., is a multiple-

choice test with 25 questions. Competitors who perform well on Part I will be invited to compete in Part II, which will be held on Dec. 5 from 1 to 3 p.m. Part II consists of problems to be worked out and then explained. Both tests will be administered at College Park.

This year's competition chair is Kenneth R. Berg, associate professor of mathematics.



William L. Thomas,
Vice President for
Student Affairs

Student Affairs Completes 10-Year Study of Student Attitudes

Although a few of its members may be greying by now, College Park's freshman class of 1980 continues to provide fresh insights about the attitudes of College Park students.

More than 700 students from the university's freshman class of 1980 participated in the Maryland Longitudinal Study, the most extensive examination of student attitudes ever undertaken by the university. In addition, black students in the group were tracked separately to provide insights into the black student experience. Over a five-year period researchers from the Office of Student Affairs annually interviewed and surveyed the students about their attitudes on a wide variety of issues.

In a series of 16 reports, the researchers reported on such issues as the commuter student experience, transfer students, student employment, campus services, the black student experience and academics.

Although some of the data has become outdated, the reports provide insights into the student experience that have implications for current policy and practice, says Janet Schmidt, coordinator of the project. The data has already influ-

enced the views of administrators on such issues as commuter students (see sidebar), residence hall life and changes in the undergraduate education program.

"The most important thing this research does for us as educators is give us a greater awareness of the culture with which we're dealing," says William Thomas, Vice President for Student Affairs. "We're particularly interested in seeing this data used by faculty."

Among the findings in the report:

- Commuter and resident students arrive at College Park with similar SAT scores, identification with the campus and expectations for success. However, as early as the second semester of their freshman year commuters were significantly less involved in such key aspects of campus life as campus jobs and student organizations.

- Students who left College Park after their second year at the university tended to leave in good academic standing.

- A large percentage of College Park students work. About 40 percent of the students surveyed held jobs during their freshman year and about 75 percent held jobs by their fourth year on campus.

- Students who entered the university with weak academic backgrounds often had unrealistically high expectations for their education. Incoming students who said they expected eventually to earn doctorates entered with lower GPAs as a group than those students who expected to earn only a bachelor's degree.

In discussing the implications of such findings, the reports recommend more institutional direction for students in a number of areas of their education. Among the recommendations, the reports call for mandatory advising and more faculty-student interaction. Helping students develop realistic goals early in their university careers could improve retention, according to the reports.

As a final step in the project, researchers are planning to produce a book on college student development that would be marketed to education researchers.

"For researchers in this field, our work is valuable. We've looked at areas that have never been studied in this way before," Thomas says.

Faculty members at the university who would like copies of the study or would like more information about it should call 314-8431.

Brian Busek

Jacoby Works to Bring Commuters Into University Life

Although commuter students account for more than 80 percent of the students at American colleges and universities, institutions often ignore the special needs of this population.

Often more detached from campus life than residential students, commuters (defined as any students who do not live in institution-owned housing) have a different—and sometimes less successful—college experience than that of peers who live in the residence halls.

For example, the University of Maryland at College Park's recently completed Maryland Longitudinal Study found that commuter and resident students come to College Park with similar backgrounds but perform differently. According to the study, commuters and residents arrived at College Park with similar SAT scores, identification with the campus and expectations for success but as early as the second semester of their freshman years were significantly less involved in such key aspects of campus life as jobs and student organizations.

College Park commuters, however, benefit from the services of Barbara Jacoby, one of the nation's top experts in the field. Jacoby, Director of the National Clearing-

house for Commuter Programs and Director of Commuter Affairs at College Park, is the author of a new book on the subject, *The Student as Commuter: Developing a Comprehensive Institutional Response*.

"The first thing to recognize is that there are positive aspects of commuting, especially living at home," Jacoby says. "Moving away from home is a rite of passage that some college-age people aren't ready for."

"Commuters have their own rooms, good cooking, etc.—it's a nice, supportive environment in a lot of ways."

"On the other hand, when a student lives on campus, the university tends to become the focus of his or her life. For commuter students there can be many distractions—friends, jobs and social activities that aren't associated with the university."

"With commuter students, it is terribly important to draw them into the life of the campus. It's a misperception to say that commuters are apathetic," she says.

At College Park, Jacoby works on developing programs to keep commuters attuned to university life. A continuing concern for Jacoby is making colleagues, everyone from faculty members to coordinators of

services, aware of scheduling considerations that affect commuters. Among the Office of Commuter Affairs' important innovations in recent years was the creation in spring 1989 of the "Commuter Connection," a newsletter that is sent to all commuters.

This fall, Jacoby is working on a campaign to get more commuter students working on campus. Of commuter students who work, 93 percent work off campus as opposed to 60 percent of resident students who work.

"Employment certainly is a way of bringing commuters to campus more often," she says.

Brian Busek



Solar Car Video Documentary Wins Top Award

Leanne Norton, a graduate student in the Department of Radio, Television and Film, has won first place in a solar car student video competition. The award, which carries a \$1,000 check from the U.S. Department of Energy, was made for a student-produced video that best captured the development, testing and operation of solar vehicles competing in the GM Sunrayce USA. The Maryland car took third place in the U.S. race and will compete in the World Solar Challenge in Australia next month. Norton's video will be broadcast by Australia's Territorial Television Nov. 10, the day before the Solar Challenge race gets underway.

ARTS

At Age 10, the Maryland Handel Festival is "Half-Way There"

From Oct. 31 to Nov. 4, the Maryland Handel Festival will celebrate its tenth anniversary with the distinguished mix of performance and scholarship that has been its hallmark from the beginning.

And, according to music professor Paul Traver, founder and artistic director, the festival is right on target with the goal, stated at its inception, of performing all of Handel's English oratorios in the order in which he wrote them. There are 18 or 19 of them, depending on how they are categorized, and says Traver, "We are now half-way there in these performances, with this year's presentation of *Joseph*, the ninth of the oratorios."

There have been some interruptions in the orderly sequence of performances, for the most part caused by presentations of *Messiah* in 1980 and 1984. *Messiah* will again be sung in this year's festival, in a special gala performance conducted by Traver at Baltimore's Joseph Meyerhoff Symphony Hall at 8 p.m. on Wednesday, Oct. 31.

But in addition to the well-loved and familiar, Traver also continues to present little-known treasures, such as this year's *Joseph and His Brethren*. According to Traver, all the scholarship available points to the festival's production as being the first U.S. performance ever. Traver encourages everyone to "come and hear what Handel did with the 'technicolor dreamcoat' story." The concert will be on Sun-

day, Nov. 4 at 3 p.m. in Memorial Chapel.

Another little-known delight, Handel's opera *Agrippina*, will receive a full-scale production in the 1990 festival. With an all-student cast, the opera will be directed by music department acting chair, Leon Major, and conducted by Baroque specialist, Nicholas McGegan.

Major is pleased with the linking of educational programs between the Handel Festival and Maryland's Opera Studio. "As part of the studio's training program, *Agrippina* represents a wonderful experience for our students—and we are finding that doing a comedy of intrigue is great fun," he says.

The opera will be sung in English, so that the audience can share in the humor, in performances on Oct. 30, Nov. 1, and Nov. 3 in Tawes Recital Hall.

Scholarship has always been an important part of the Handel Festival, and this year the tradition continues with a lecture, conference sessions, and a pre-concert panel, all with no admission charge. There are, in addition, two other concerts, one of chamber music on Nov. 1, the other a young artist recital on Nov. 2.

Concerning the Handel Festival's tenth anniversary, Traver declares himself "thrilled and shocked that we have made it this far and that the world has seen fit

to support what we do."

Noting that there has been a world-wide increase in the number of performances of an enlarged Handel repertory, Traver feels the festival has played a significant role in this development, and invites members of the university community to "come help us celebrate what is, after all, a really nice success story."

For information about tickets and events in the 1990 Maryland Handel Festival, call 405-5568.

Linda Freeman



John Aler, tenor, and Phyllis Bryn-Julson, soprano and former music faculty member, will be among the soloists for the gala tenth anniversary performance of *Messiah* on Oct. 31 in Baltimore's Joseph Meyerhoff Symphony Hall.

Computer Expertise of Housing and Design Faculty Leads to Partnership With Smithsonian

When Alex Chen and Wendy Jacobs teach exhibit designers at the Smithsonian Institution's Museum of American History new and better ways of doing their jobs, the pay-off goes to College Park housing and design students.

Under an agreement signed last spring between the university and the museum, faculty members from the Department of Housing and Design are teaching museum designers how to use computers in mapping out exhibits. In exchange, the museum will provide two paid internships to university housing and design students.

For museum designers, the computer is a tool that can help them do their work more quickly and cheaply, says Chen, acting chair of housing and design. The students receive the opportunity to work for a semester with professional designers, he says.

Interestingly, the two faculty members most active in the project—Chen and Jacobs, a department lecturer and assistant to the chair—do not have backgrounds in museum exhibit design. Rather, it is their adeptness in creating computer images that attracted Smithsonian designers to the program.

Chen and Jacobs are teaching the designers how to create computer images of the spaces in which an exhibit will be shown. After the computer model of the space is made, scale images of the contents of an exhibit can be placed in the model. Once mastered, computer design proves quicker and less expensive than the traditional method of building a scale model for an exhibit.

Working on a computer also affords more flexibility, Chen says. The viewing perspective of the computer model can be tailored to the wishes of the designer. For instance, the computer model can be manipulated in such way that the designer can observe how an exhibit would look to people of different heights.

In addition, video images and written captions can be superimposed onto the screen. A complete video presentation, featuring text and pictures as well as the model, can be created for an exhibit.

Finally, there is no great start-up cost in shifting to computer-aided design, according to Chen.

"We do all this work in our open lab," he says. "You don't need

a million dollar machine to do computer-aided design."

An example is a project Chen and Jacobs worked on last spring with Michael Carrigan, the museum's assistant director of exhibitions, involving the historic Hart House. The house, built in Ipswich, Mass. in the late 1600s, will be reconstructed in the museum for a standing exhibit on the American family scheduled to open in 1992.

Within the house, artifacts will portray changes in the American family during lives of the 11 generations of Harts who occupied in the house.

During a six-week period last spring, Jacobs, Chen, and Carrigan created a computer model of the house and incorporated key elements planned for the exhibit into the model. In addition, they superimposed images of the actual house into the piece, along with a written narrative about the project. The model is now being shown to a variety of audiences, including possible corporate sponsors of the Hart House exhibit.

Brian Busek

RESEARCH

NSF Grant to Support SAY Project

Associate engineering dean Marilyn Berman has received a \$100,000 grant from the National Science Foundation to support Project SAY—Science and You—a new, two-year program designed to identify and, through mentoring, academic enrichment, and other support activities both in the classroom and at home, encourage some 30 area young women consider studying science and engineering. SAY is being run in cooperation with Prince George's Community College, and PGCC's Science Resource Center director and chemistry professor Vera Zdravkovich will work with Berman. SAY participants will be encouraged to enter the two year pre-engineering program at PGCC and then transfer to College Park.

Sims Serves on National Nutrition Labeling Committee

If, in the not-too-distant future, you know exactly how much saturated fat is in your can of soup and can find out the nutritional content of a Wendy's Classic Double burger before you take a bite, you may have Laura S. Sims to thank.

Sims, dean of the College of Human Ecology, was one of 14 nutrition and law experts who served on a committee appointed by the federal government to recommend changes in the way foods are labeled in this country.

On September 26, the committee presented its final recommendations, which included better disclosure of fat, cholesterol, sodium and fiber content, and the labeling of fresh produce, meats, and restaurant food. The group also recommended mandatory food labeling and legislation giving federal agencies greater authority to require labeling changes.

In looking at the final report, says Sims, "I am pleased that our recommendations will make it easier for consumers to get reliable nutrition information."

Only about 50 percent of packaged foods in the U.S. now carry nutrition information. But in the past decade or so, a flood of scientific evidence has linked diet with chronic diseases such as heart disease, cancer and diabetes. In the wake of this evidence, health experts and consumer groups have put increasing pressure on the Food and Drug Administration and the Department of Agriculture, the federal agencies that regulate food labeling, to revise outdated regulations.

So the two agencies asked the National Academy of Sciences' Institute of Medicine to assemble a committee of experts in food science, nutrition, marketing, nutrition education and regulatory law last year.

Sims had an ideal resume for the job: she has a doctorate in nutrition from Michigan State and a master's degree in public health from the University of Michigan. Her specialties are consumer behavior and nutrition education.

Before coming to College Park in 1988, Sims worked at the USDA as the administrator of the Human Nutrition Information Service. She says that experience gave her a "double perspective" that was useful as the committee made modifications to almost every feature of the food label.

For instance, says Sims, proposed labels will be more helpful to health-conscious consumers. Recent medical research focuses on the role of the so-called "macronutrients"—fats, cholesterol, carbohydrates, sodium and fiber—in the diet. But existing labels highlight the "micronutrients"—vitamins and minerals—even though most Americans get enough of these in their normal diet.

So, she says, "the committee downplayed the emphasis on vitamins and minerals and put more emphasis on the macronutrients." Proposed labels would list percent of calories from total fat, saturated fat and unsaturated fat, and provide dietary fiber content in grams per serving.

And instead of listing the percentage of the recommended daily allowance (USRDA) of micronutrients on each package, says Sims, the committee recommended descriptors such as "very good source of," "good source of," and "contains," each of which would have a uniform definition established by the regulatory agencies.

"The emphasis is on variety and balance in the diet, instead of a search for super-fortified foods," she says.

The committee took a major step by suggesting labeling regulations for restaurant food, fresh produce, meat, seafood and poultry—items that have fallen through the cracks of current FDA and USDA regulations.

"I think this coverage issue is one of the most significant things in our report," says Sims. "We know people are eating out more, and right now fresh foods don't have any nutrition labels; so this recommendation represents additional information so consumers



Laura S. Sims

can make more intelligent choices."

The "serving size," a unit of measurement that is now arbitrarily determined by food manufacturers, has often been a target of criticism. The FDA, in preliminary revisions it developed, proposed changing serving sizes to metric weights.

"But research shows that consumers don't understand metric," says Sims. "So we proposed that serving sizes be given in standard household measures, such as tablespoons and cups, with the metric weight given in parentheses. This way people can learn both."

Sims says her own research has looked at "how consumers process information, and how that information determines behavior." Those concerns surfaced in the form of committee suggestions for making labels easier to understand, and a recommendation for a public education campaign to accompany the label changes.

Officials at the FDA and USDA have said they will consider the committee's recommendations as they revise federal labeling regulations over the next 6 to 12 months.

Lisa M. O'Rourke

FMCD's Randolph Receives \$95,000 Grant

Suzanne Randolph, assistant professor in the Department of Family and Community Development, has received a \$95,000 grant from the American National Red Cross to evaluate 13 Red Cross programs related to HIV-AIDS. These programs, which are both educational and technical, operate across the United States and are part of a three-year collaboration between the Red Cross and the National Centers for Disease Control. The project, which begins this month, extends through June, 1991.

Randolph will be working directly with the Red Cross staff to test the effectiveness of AIDS-education projects aimed at specific populations, including youth, African-American families, Hispanic families, and people in the workplace.

New Program Will Link UMS Libraries

The Maryland Board of Public Works has approved a \$7.6 million contract for a library information management system to link the libraries of the University of Maryland System (UMS).

The information management system, to be designed and implemented by CARL Systems of Denver, will link the 13 UMS library administrative units by a computer network. Staffs and patrons of the libraries will have ready access to the combined resources, and any

person in the state with a personal computer linkup to the library network will have full access to the library catalogs and a variety of other information sources. The total number of volumes in the University System libraries is about seven million.

The full operation of the library information management system will be phased in over five years. Its central processing units will be at College Park and at UMAB.

Kellogg's®
SHREDDED WHEAT
SQUARES™
RAISIN

NUTRITION INFORMATION
SERVING SIZE: 1 OZ. (28.4 g, ABOUT 1/2 CUP)
SERVINGS PER PACKAGE: 16

	CEREAL	WITH 1/2 CUP VITAMINS A & D SKIM MILK
CALORIES	90	130*
PROTEIN	2 g	6 g
CARBOHYDRATE	23 g	29 g
FAT	0 g	0 g*
CHOLESTEROL	0 mg	0 mg*
SODIUM	0 mg	65 mg
POTASSIUM	110 mg	310 mg

PERCENTAGE OF U.S. RECOMMENDED DAILY ALLOWANCES (U.S. RDA)

PROTEIN	4	15
VITAMIN A	**	4
VITAMIN C	**	2
THIAMIN	25	30
RIBOFLAVIN	25	35
NIACIN	25	25
CALCIUM	**	15
IRON	45	45
VITAMIN B ₆	25	25
FOLIC ACID	25	25
VITAMIN B ₁₂	25	35
PHOSPHORUS	8	20
MAGNESIUM	6	10
ZINC	10	15
COPPER	2	4

*WHOLE MILK SUPPLIES AN ADDITIONAL 30 CALORIES, 4 g FAT, AND 15 mg CHOLESTEROL.
**CONTAINS LESS THAN 2% OF THE U.S. RDA OF THIS NUTRIENT.

INGREDIENTS: WHOLE WHEAT, RAISINS, BROWN SUGAR, GLYCERINE.

VITAMINS AND MINERALS: IRON, NIACINAMIDE, ZINC (OXIDE), VITAMIN B₆ (PYRIDOXINE HYDROCHLORIDE), VITAMIN B₁₂ (RIBOFLAVIN), VITAMIN B₁ (THIAMIN HYDROCHLORIDE), FOLIC ACID, AND VITAMIN B₃.

TO KEEP THIS CEREAL FRESH, BHT HAS BEEN ADDED TO THE PACKAGING.

MADE BY KELLOGG COMPANY
BATTLE CREEK, MI 49016, U.S.A.
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CARBOHYDRATE INFORMATION

	CEREAL	WITH 1/2 CUP VITAMINS A & D SKIM MILK
STARCH AND RELATED CARBOHYDRATES	15 g	15 g
SUCROSE & OTHER SUGARS	6 g	12 g
DIETARY FIBER†	2 g	2 g
TOTAL CARBOHYDRATES	23 g	29 g

†FIBER MEASURED USING LATEST METHOD RECOGNIZED BY FDA.

GUARANTEE: If you are not satisfied with the quality of this product, return ENTIRE package for replacement. PRINT your name and address, tell us why returned, where purchased, date and price paid. Send to: Kellogg's Consumer Affairs Department, P.O. Box CMB, Battle Creek, MI 49016-1986.

PACKAGED IN RECYCLED PAPERBOARD

McCormick & Co. Makes Major Contribution to Business School

McCormick & Co., one of the nation's leading producers of spices and other seasonings, recently contributed \$250,000 to the College of Business and Management's capital campaign. A classroom in the business school's new facility will be named for the firm. McCormick's gift is the sixth major contribution received by the school since it launched its capital campaign last March. Other donors are: the Artery Corporation, Ernst & Young, Safeway Stores, Rouse Corporation, and Wheat First Securities.

F.Y.I.

New Appointments and Promotions for 1990

The following is a list of 1990 promotion and tenure actions and new appointments.

PROMOTION AND TENURE ACTIONS

AGRICULTURE

Professor: William J. Kenworthy (AGRO); Ramon E. Lopez (AREC); Timothy J. Ng (HORT); David J. Sammons (AGRO); Charles J. Wabeck (POUL); Richard A. Weismiller (AGRO).
Associate Professor: Brenda Alston-Mills (ANSC); Robert L. Hill (AGRO); William L. Magette (AGEN).

ARTS AND HUMANITIES

Professor: Vincent Caretta (ENGL); John L. Caughey (AMST); Hasia R. Diner (AMST); John M. Duffy (CLAS); Vicki S. Freimuth (SPCH); Gladys-Marie Fry (ENGL); Norbert R. Hornstein (LING).
Associate Professor: Jonathan D. Auerbach (ENGL); Brigitte M. Bedos-Rezak, tenure (HIST); Joseph Bami (FRIT); Kent Cartwright (ENGL); Michael R. Collier (ENGL); Harry J. Elam, Jr. (THET); C.L. Terry Gips (HSAD); Hugh Ming Lee (CLAS); Susan J. Leonardi (ENGL); Lowell R. Sparks (MUSC).

BEHAVIORAL AND SOCIAL SCIENCES

Professor: Howell S. Baum (URBS); John C. Haltiwanger (ECON); Mark P. Leone (ANTH).
Associate Professor: Bartlomiej K. Kaminski (GVPT); Dana J. Plude (PSYC).

BUSINESS AND MANAGEMENT

Professor: Thomas M. Corsi (BMGT).

COMPUTER, MATHEMATICAL AND PHYSICAL SCIENCES

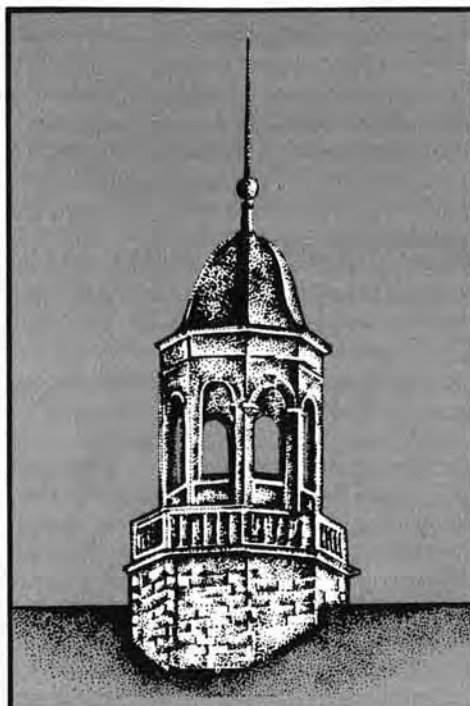
Professor: James F. Drake, Jr. (PHYS/IPST); Robert G. Ellingson (METO); William M. Goldman (MATH); Jordan A. Goodman (PHYS); Paul S. Green (MATH); David H. Hamilton (MATH); Christopher K.R.T. Jones (MATH); Benjamin Kedem (MATH); Glenn M. Mason (PHYS/IPST); Marvin V. Zelkowitz (CMSC).
Associate Professor: Jeffrey D. Adams (MATH); James A. Carton (METO); Howard Elman (CMSC); Wendell T. Hill, III (IPST); Eileen L. McLellan (GEOL); David M. Mount (CMSC); Ricardo H. Nochetto (MATH/IPST).

EDUCATION

Professor: H. Beth Davey (EDCI); Olivia N. Saracho (EDCI); William E. Sedlacek (EDCP).
Associate Professor: David H. Cooper (EDSP); Deborah L. Speece (EDSP).

ENGINEERING

Professor: Kazys K. Almenas (ENCH); Andre L. Tits (ENEE); Lung-Wan Tsai (ENME); Donald W. Vannoy (ENCE).



STEPHEN A. DARROU

Associate Professor: Shapour Azarm (ENME).

HEALTH & HUMAN PERFORMANCE

Professor: Robert H.L. Feldman (HLTH).

HUMAN ECOLOGY

Associate Professor: Richard Ettenson (TXCE).

LIFE SCIENCES

Professor: Richard N. Armstrong (CHEM); Philip R. DeShong (CHEM); Michael J. Raupp (ENTO); Paul W. Steiner (BOTN).
Associate Professor: Steven W. Hutcheson (BOTN).

APPOINTED PROFESSOR EMERITUS

ARTS AND HUMANITIES

Christopher A. Herin (HIST); George O. Kent (HIST); Elbert B. Smith (HIST).

BEHAVIORAL AND SOCIAL SCIENCES

John H. Cumberland (ECON); Theodore McNelly (GVPT).

COMPUTER, MATHEMATICAL & PHYSICAL SCIENCES

Yaohan Chu (CMSC); William F. Hornyak (PHYS); Robert Zwanig (IPST).

ENGINEERING

Hung C. Lin (ENEE).

LIFE SCIENCES

Kenneth R. Henery-Logan (CHEM); Chester E. Holmlund (CHEM); Robert E. Menzer (ENTO); Donald H. Messersmith (ENTO); Hugh D. Sisler (BOTN); Francis E. Wood (ENTO).

NEW APPOINTMENTS

AGRICULTURE

Associate Professor: Madis Pihlak (HORT).

ARCHITECTURE

Dean/Professor: Steven Hurtt.

ARTS AND HUMANITIES

Professor/Chair: Keith Campbell. (PHIL).

Professor: Marcia Herndon (MUSC); Mary Helen Washington (ENGL).

Associate Professor: Judith Lichtenberg, (PHIL/CPPP); Terry M. Parssinen, (HIST); Ineke Phaf, (SPAN); Mark Turner, (ENGL).

BEHAVIORAL & SOCIAL SCIENCES

Distinguished Professor: Thomas C. Schelling (ECON/PUAF).

Professor: Allen Drazen (ECON); James R. Markusen (ECON); James L. Smith (ECON), effective 1/91.

Associate Professor: Joseph E. Harrington, Jr. (ECON); David McDowall (CRIM); Edward B. Montgomery (ECON).

BUSINESS AND MANAGEMENT

Professor: Lemma W. Senbet (BMGT).

COMPUTER, MATHEMATICAL and PHYSICAL SCIENCE

Professor and Chancellor: Donald N. Langenberg. (PHYS/ENEE).

Professor/Dean: Richard H. Herman (MATH).

Professor/Chair: Michael Brown (GEOL); Robert D. Hudson (METO).

Professor: Roald Z. Sagdeev (PHYS/IPST).

Associate Professor: Celso Grebogi (MATH/LPR/IPST); Christopher J. Lobb (PHYS); Robert L. Pego (MATH).

EDUCATION

Professor/Chair: Sylvia Rosenfield (EDCP).

Associate Professor: Peter P. Afflerbach (EDCI).

ENGINEERING

Professor/Chair: Brian Hunt (ENAE).

Professor: James G. Quintiere (FIREP); Alexander Roitburd (ENCH).

Associate Professor: David L. Akin (ENAE/SRC).

HEALTH and HUMAN PERFORMANCE

Associate Professor: Mark R. Meiners (HLTH).

HUMAN ECOLOGY

Associate Professor: David C. Stapleton (TXCE); Jacqueline Wallen (FMCD).

JOURNALISM

Professor: Eugene L. Roberts, Jr., effective 8/91.

LIFE SCIENCES

Professor: John D. Weeks (CHEM/IPST).

Associate Professor: Avis H. Cohen (ZOO).

Outlook makes every attempt to include official up-to-date information in this section. It apologizes for any omissions or errors. The editor

CALENDAR

Campus Kitchen Offers New Classes

The Campus Kitchen program offers free special interest classes presented by Dining Services staff members. Each class is approximately an hour long and is presented to campus groups at no charge. New classes include Training for Intervention Procedures by Servers of Alcohol, Non-Alcoholic Bartending (The Classic Drinks Without the Spirits), Italian Cuisine, Chesapeake Dining, Afro-American Cooking, Nutrition for Weight Loss, Cake Decorating, and Substance Abuse—An Insider's View. For more information call 314-8056.

OCTOBER 22-31

21 SUNDAY



Women's Studies Lecture: "The Women's Health Movement in the United States: Past, Present, and Future," Judy Norsigian, Boston Women's Health Book Collective, 8 p.m., 2203 Art/Soc. Call 5-6877 for info.

Art Gallery Exhibition: "Trouble in Paradise," today-Oct. 26, The Art Gallery, Art/Soc. Call 5-2763 for info.

Employee Development Seminar: "Speaking Confidently," today, Sep. 24 & 26, 9 a.m.-noon, 0306 Benjamin. Call 5-5651 for info.

Center for International Extension Development Colloquium: "Institutional Development in Agriculture Development: Focus on Research and Extension," Alain Tobelem, International Development Specialist, noon (bring brown bag lunch), 0115 Symons. Call 5-1253 for info.

Women's Commission Meeting, noon-1:30 p.m., 2105 Main Administration. Call 5-5806 for info.

Computer Science Colloquium: "Improving Software Productivity," Barry Boehm, DARPA-ISTO, UCLA, reception, 3:30 p.m., 1152 A.V. Williams Bldg., lecture, 4 p.m., 0111 Classroom Bldg. Call 5-2661 for info.

Campus Senate Meeting, 3:30-6:30 p.m., 1026 Reckord Armory. Call 5-5805 for info.

Guarneri String Quartet Open Rehearsal, 7 p.m., Tawes. Call 5-5548 for info.

23 TUESDAY

Sexual Harassment Education Workshop, for vice presidents, deans, directors, & department chairs, today & Thurs., Sept. 25, 9:30-11:30 a.m., 2118 Lee. Call 5-2837 for info.

History Department "Lunch Bag Talk": "The Resources of the Institute," Marcel Van der Linden, International Institute of Social History, Amsterdam, noon, 2119 Francis Scott Key. Call 5-4265 for info.

Zoology Seminar: "The Limits to Population Viability," Mark L. Shaffer, U.S. Fish & Wildlife Service, Washington D.C., noon, 1208 Zoo/Psych. Call 5-6949 for info.

History Lecture: "Dutch Migration History," Jan Lucassen, International Institute of Social History & Free U. of Amsterdam, 3:15 p.m., 1117 Francis Scott Key. Call 5-4265 for info.

Writers Here & Now Reading, Linda Hogan, poet, 3:30 p.m., 3101 McKeldin Library (Katherine Anne Porter Room). Call 5-3819 for info.

Physics Colloquium: "The Zero Experiment: Microgravity Critical Fluid Light Scattering in Earth Orbit," Robert Gammon, Institute for Physical Science & Technology, 4 p.m., 1410 Physics., reception, 3:25 p.m. Call 5-5980 for info.

University Theatre: *The Rimers of Eldritch*, today-Oct. 28, 8 p.m., Sunday matinee, 2 p.m., Pugliese Theatre. Call 5-2201 for info.

24 WEDNESDAY

Counseling Center Research & Development Meeting: "Center for the Prevention and Control of Substance Abuse: A New UMCP Resource," Raymond Lorian, Psychology, noon-1 p.m., 0106-0114 Shoemaker. Call 4-7691 for info.

Astronomy Colloquium: "Self Consistent Models of Spiral Galaxies," George Contopoulos, Florida State U., 4 p.m., 1113 Computer & Space Sciences., reception, 3:30 p.m. Call 5-1524 for info.

University Theatre: *The Rimers of Eldritch*, 8 p.m., Pugliese Theatre. See Oct. 23 for details.

25 THURSDAY

Noontime Seminar on Computers in the Art & Humanities: "The Learner-Centered Dream Machine," Kathy James, Language House, noon-1:30 p.m., St. Mary's Hall. Call 5-4337 for info.

Art Department Minorities & Women Lecture, Camille Billops, Artist, Co-director, Hatch-Billops Archives of Black American Culture, 3 p.m., 1309 Art/Soc. Call 5-1442 for info.

OMSE "Celebration of Hispanic Student Excellence," cultural acts, dances & music, 3-5 p.m., 1101 Hornbake Library. Call 5-5616 for info.

Outstanding Hispanic Scholar Seminar: "Endocrine Function of the Placenta: Polypeptide Hormones," Frank Talamantes, U. of California at Santa Cruz, 3 p.m., Maryland Room, Marie Mount. Call 5-3912 for info.

Meteorology Seminar: "Review of ENSO Theory," Max Suarez, NASA/Goddard, 3:30 p.m., 2114 Computer & Space Sciences., refreshments at 3 p.m. Call 5-5392 for info.

Center on Population, Gender, & Social Inequality Seminar: "Like Daughter, Like Mother: Young Women's Lives and Social Change in Sri Lanka," Anju Malhotra, U. of North Carolina at Chapel Hill, 3:30 p.m., 2115 Art/Soc. Call 5-6422 for info.

Intramural Basketball Registration, join or create a team, 4 p.m., 0117 Reckord Armory. Call 4-7216 for info.

Campus Recreation "World's Largest Aerobics Class," 5-6 p.m., Reckord Armory. Call 4-7218 for info.

Early American History Seminar: "Music and the Scottish Influence in Colonial Annapolis," David Hildebrand, 8 p.m., 1109 Center of Adult Education. Call 5-4265 for info.

Movies: *Total Recall*, today-Oct. 28, Hoff Theatre. Call 4-HOFF for info.

University Theatre: *The Rimers of Eldritch*, 8 p.m., Pugliese Theatre. See Oct. 23 for details.

26 FRIDAY

Geology Seminar: "Early Proterozoic Continental Tectonics of West Greenland and Baffin Island," John Grocott, Kingston Polytechnic, 11 a.m., 0105 Hornbake Library. Call 5-2783 for info.

Zoology Seminar: "Black Pineleaf Scale Insects on Ponderosa Pine: The Case for Local Adaptation by a Parasitic Herbivore," Donald N. Alstad, Ecology, U. of Minnesota, noon, 2242 Patterson. Call 5-6887 for info.

Speech Communication Colloquium: "Language and Politics," Michael Agar, Anthropology, noon, 0138 Tawes. Call 5-6524 for info.



"Lunch n' Learn" Mental Health Lecture: "The Battered Spouse: A Civil War Case History," Virginia Beauchamp, English, 1-2 p.m., 3100E Student Health Center. Call 80-8106 for info.

Music lecture: "The Musical Iconography of the Commedia dell'arte: An Inquiry," Thomas F. Heck, 3 p.m., 2102 Tawes. Call 5-5548 for info.

University Theatre: *The Rimers of Eldritch*, 8 p.m., Pugliese Theatre. See Oct. 23 for details.

Midnight Movie: *Frankenhooker*, today & tomorrow, Hoff Theatre. Call 4-HOFF for info.

27 SATURDAY

Maryland Gospel Choir Concert, 4 p.m., Center of Adult Education. \$6.00 standard admission; \$4.00 students & seniors. Call 4-7758 for info.

University Theatre: *The Rimers of Eldritch*, 8 p.m., Pugliese Theatre. See Oct. 23 for details.

28 SUNDAY

University Theatre: *The Rimers of Eldritch*, 2 p.m., Pugliese Theatre. See Oct. 23 for details.

29 MONDAY

French & Italian Lecture: "Nobility and Literature: Questions on Tomasi di Lampedusa's *The Leopard*," Eduardo Saccone, Johns Hopkins U., 3 p.m., Language House Reception Hall, reception to follow. Call 5-4024 for info.

Computer Science Colloquium: "Design Notes on Some Virtual Machines," David Gelernter, Yale U., reception, 3:30 p.m., 1152 A.V. Williams Bldg., lecture, 4 p.m., 0111 Classroom Bldg. Call 5-2661 for info.

Porter Room). Call 5-3809 for info.

Physics Colloquium: "Two-photon Polarization as a Test of Quantum Mechanics," Eugen Merzbacher, U. of North Carolina, 4 p.m., 1410 Physics, reception, 3:25 p.m. Call 5-5980 for info.

Women's Field Hockey vs. Pennsylvania, 7 p.m., Astroturf Field. Call 4-7064 for info.

Movies: *The Handmaid's Tale*, today & tomorrow, Hoff Theatre. Call 4-HOFF for info.

Public Affairs Lecture: "Competition with our Friends: Trade," I. M. Destler, Public Affairs, 7:30 p.m., Center for Advanced Research in Biotechnology Auditorium, Shady Grove. Call 5-6330 for info.

Maryland Opera Studio Performance: *Agrippina*, Leon Major, director; Nicholas McGegan, conductor, 7:30 p.m., Tawes Recital Hall. Call 5-5546 for info.



Dance Performance, featuring new work by Stephanie Skura, Improvisations Unlimited, today-Nov. 3, sign-interpreted Nov. 2, 8 p.m., EE Studio/Theater. Call 5-3190 for info.

31 WEDNESDAY

Employee Development Seminar: "Overview of Environmental Safety," 9 a.m.-noon, Maryland Room, Marie Mount. Call 5-5651 for info.

Counseling Center Research & Development Meeting: "Reflections from the New Chair of CAPS," Sylvia Rosenfield, Counseling and Personnel Services, noon-1 p.m., 0106-0114 Shoemaker. Call 4-7691 for info.

Astronomy Lecture: "Microwave Imaging of Saturn's Deep Atmosphere and Rings," Arie Grossman, 4 p.m., 1113 Computer & Space Sciences, reception, 3:30 p.m., 0254 CSS. Call 5-1524 for info.

American Handel Society Lecture: "Words and the Word: Sounding the text of Handel's *Messiah*," Don E. Saliers, 4 p.m., Tawes Recital Hall. Call 5-5568 for info.

Halloween Movie Special: *The Exorcist*, 9:45 p.m., Hoff Theatre. Call 4-HOFF for info.

Architecture Lecture, Charles Gwathmey, Gwathmey/Siegel Arch., New York, 7:30 p.m., Architecture Auditorium. Call 5-6284 for info.

Handel Festival Gala Tenth Anniversary Concert: *Messiah*, Paul Traver, conductor, 8 p.m., Meyerhoff Symphony Hall, Baltimore. Call 5-5568 for info.

* Admission charge for this event. All others are free.